

Conventional Wavelength Add/Drop Techniques

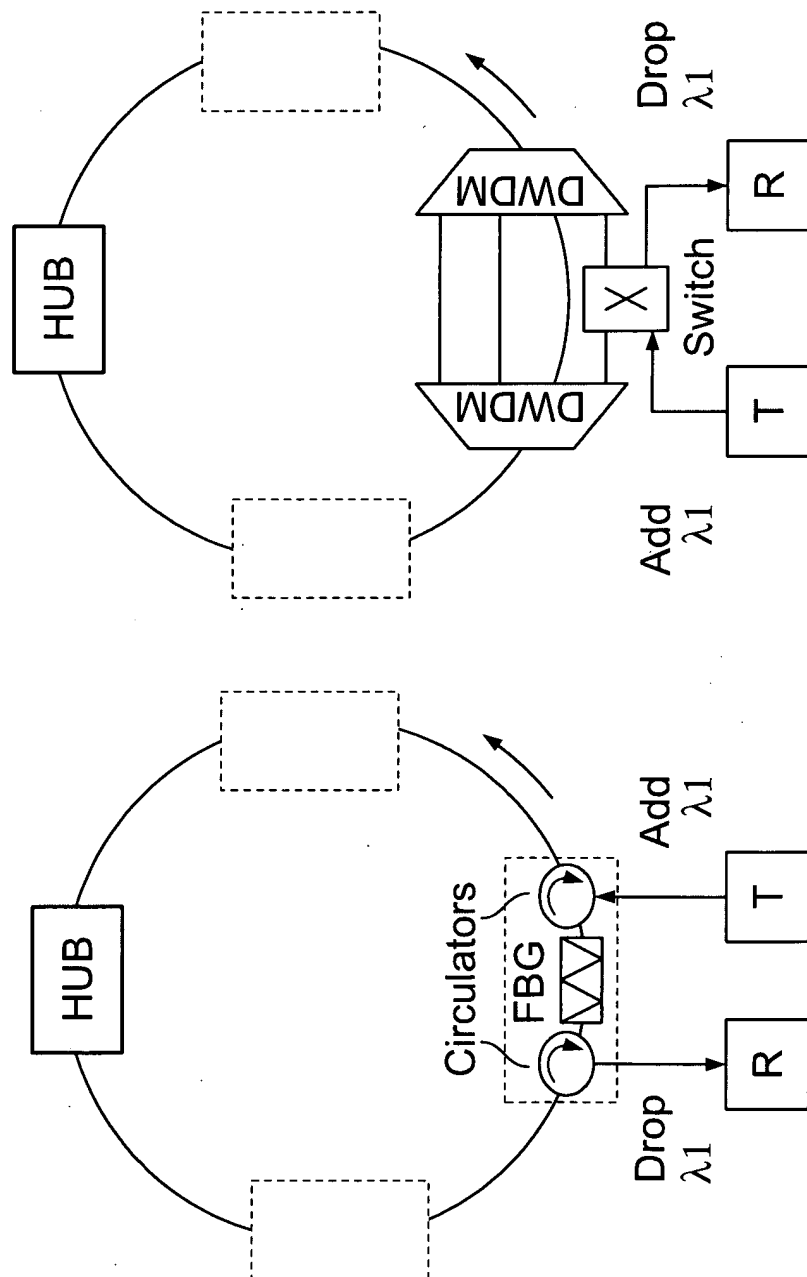
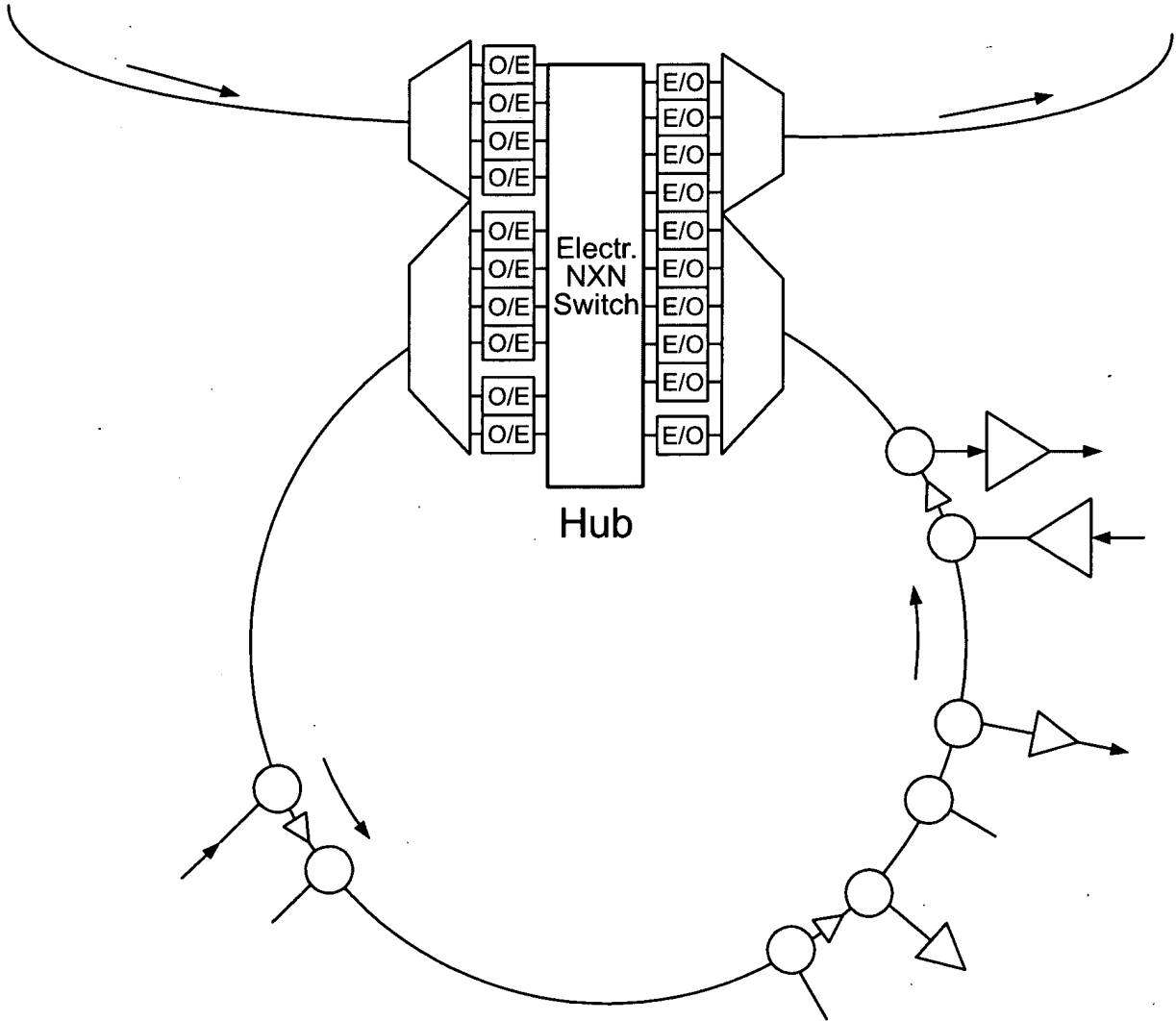
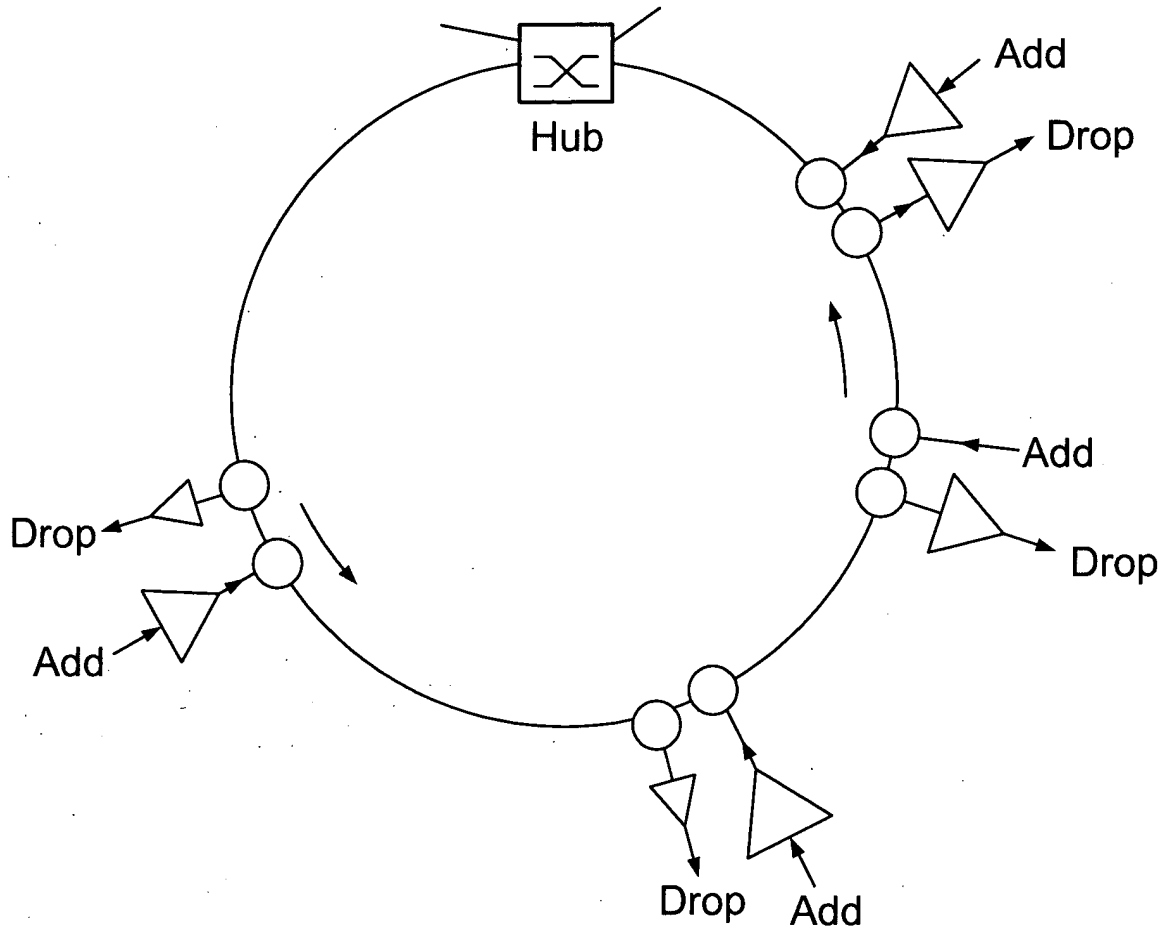


FIG. 1A

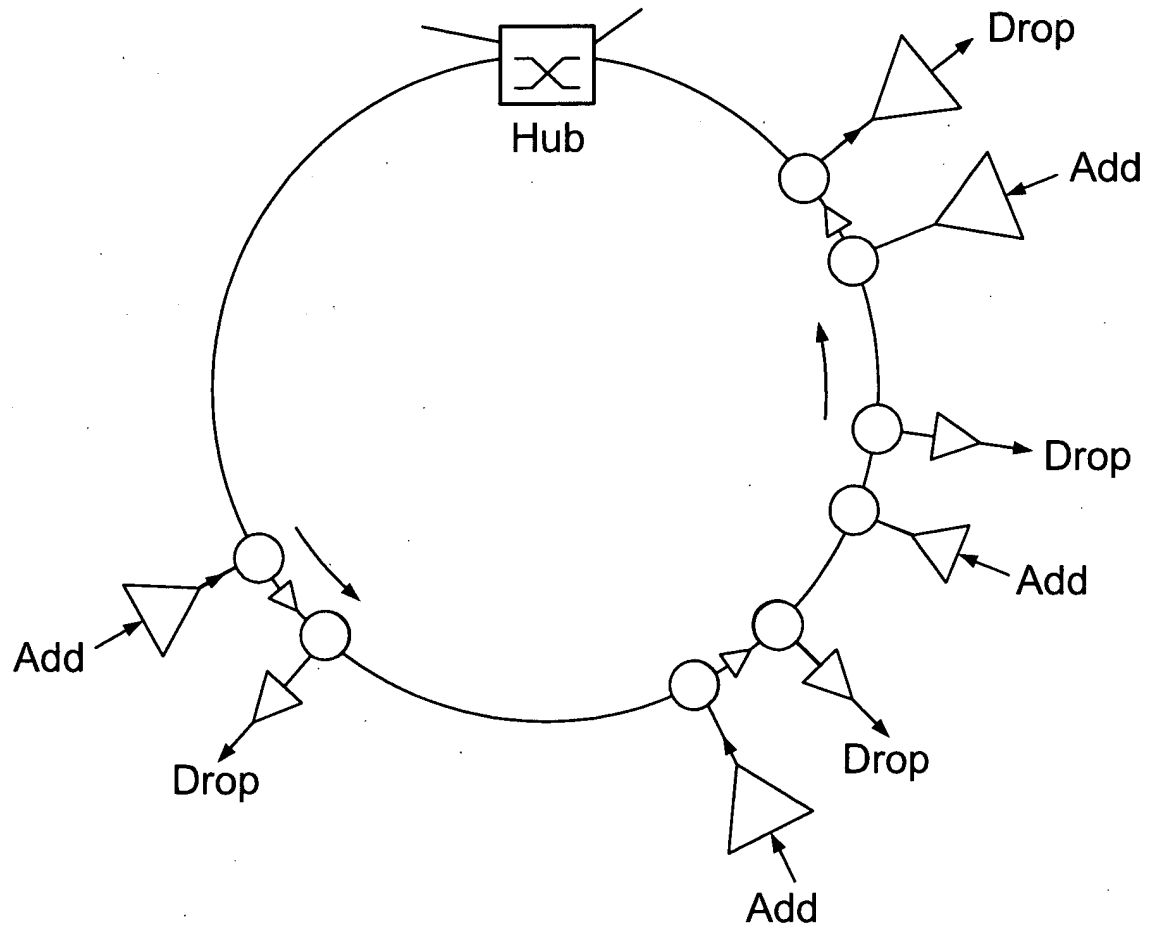
FIG. 1B



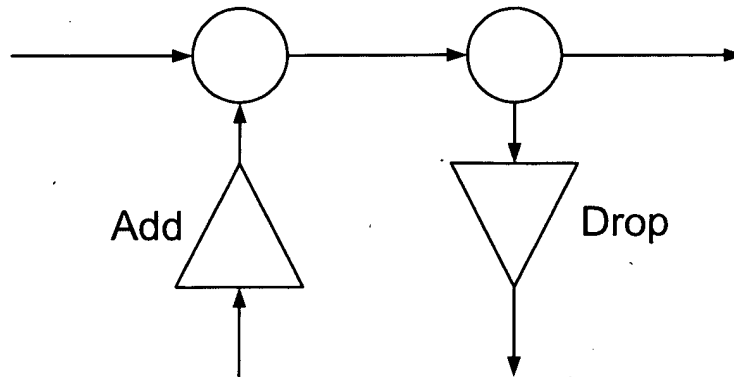
**FIG. 2**  
**(Prior Art)**



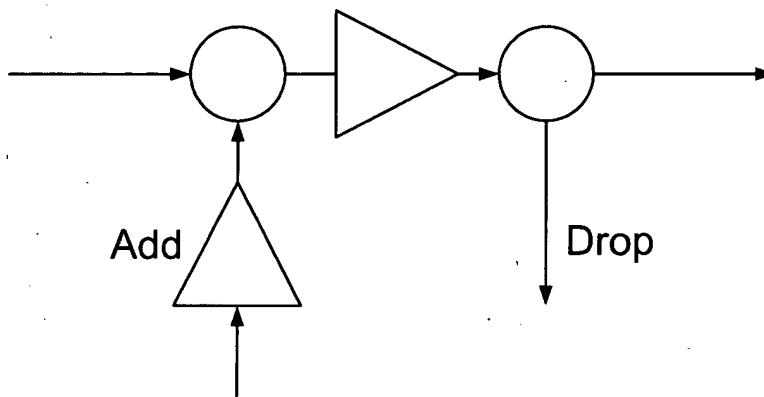
**FIG. 3A**  
**(Prior Art)**



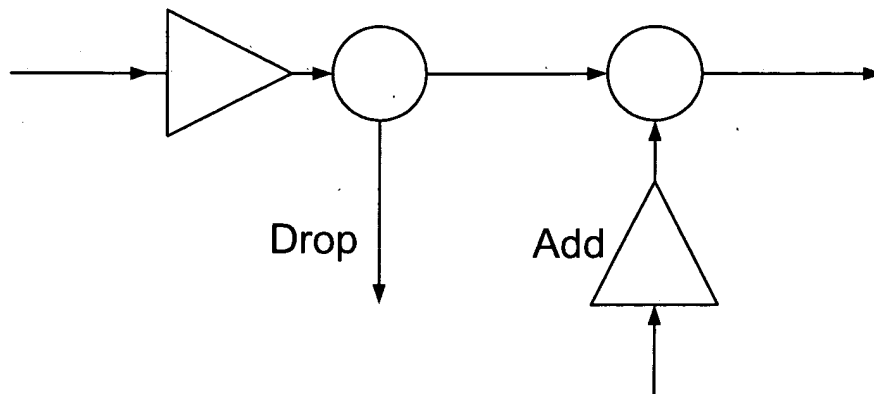
**FIG. 3B**  
**(Prior Art)**



**FIG. 4A**  
**(Prior Art)**



**FIG. 4B**  
**(Prior Art)**



**FIG. 4C**  
**(Prior Art)**

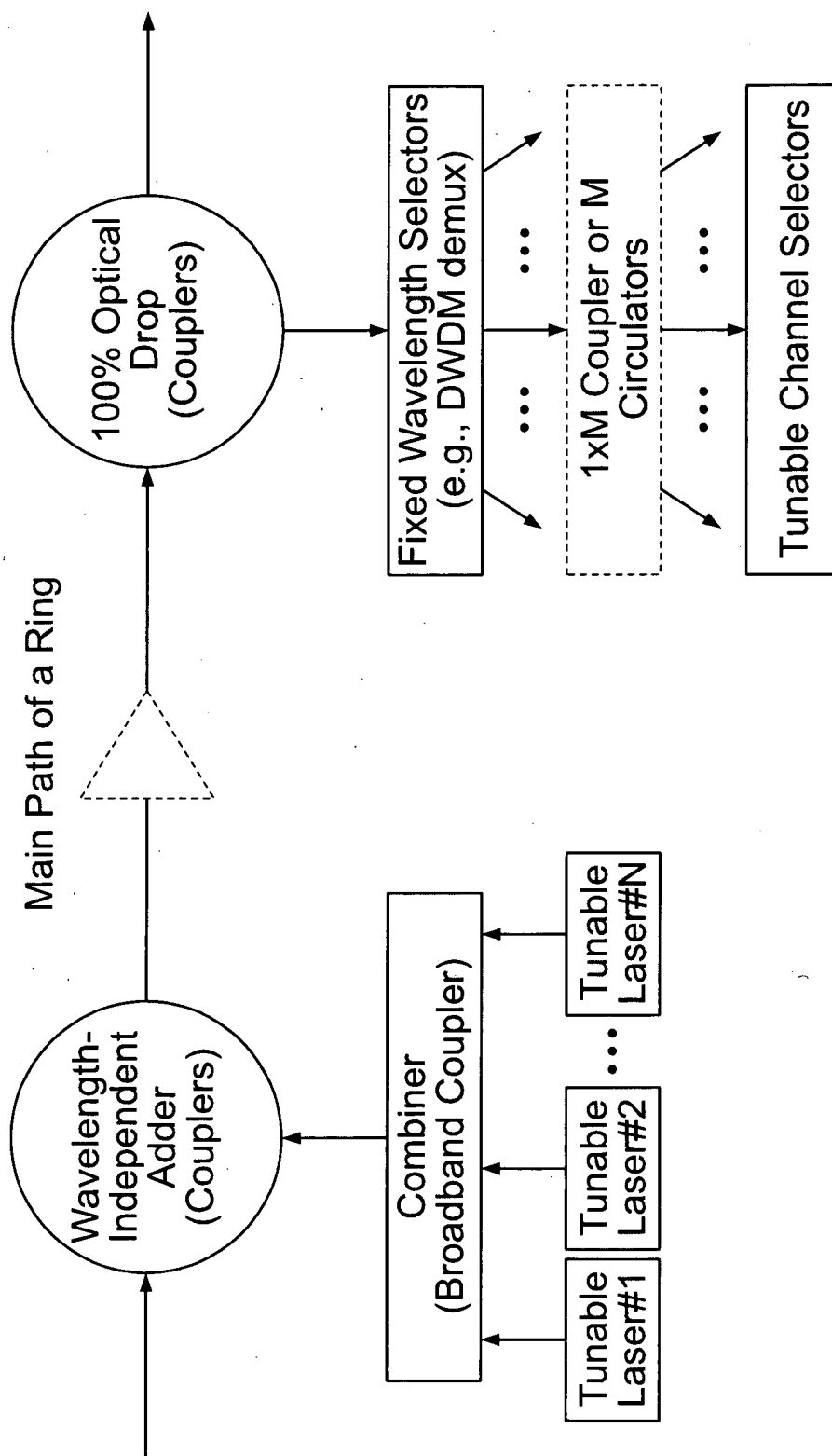
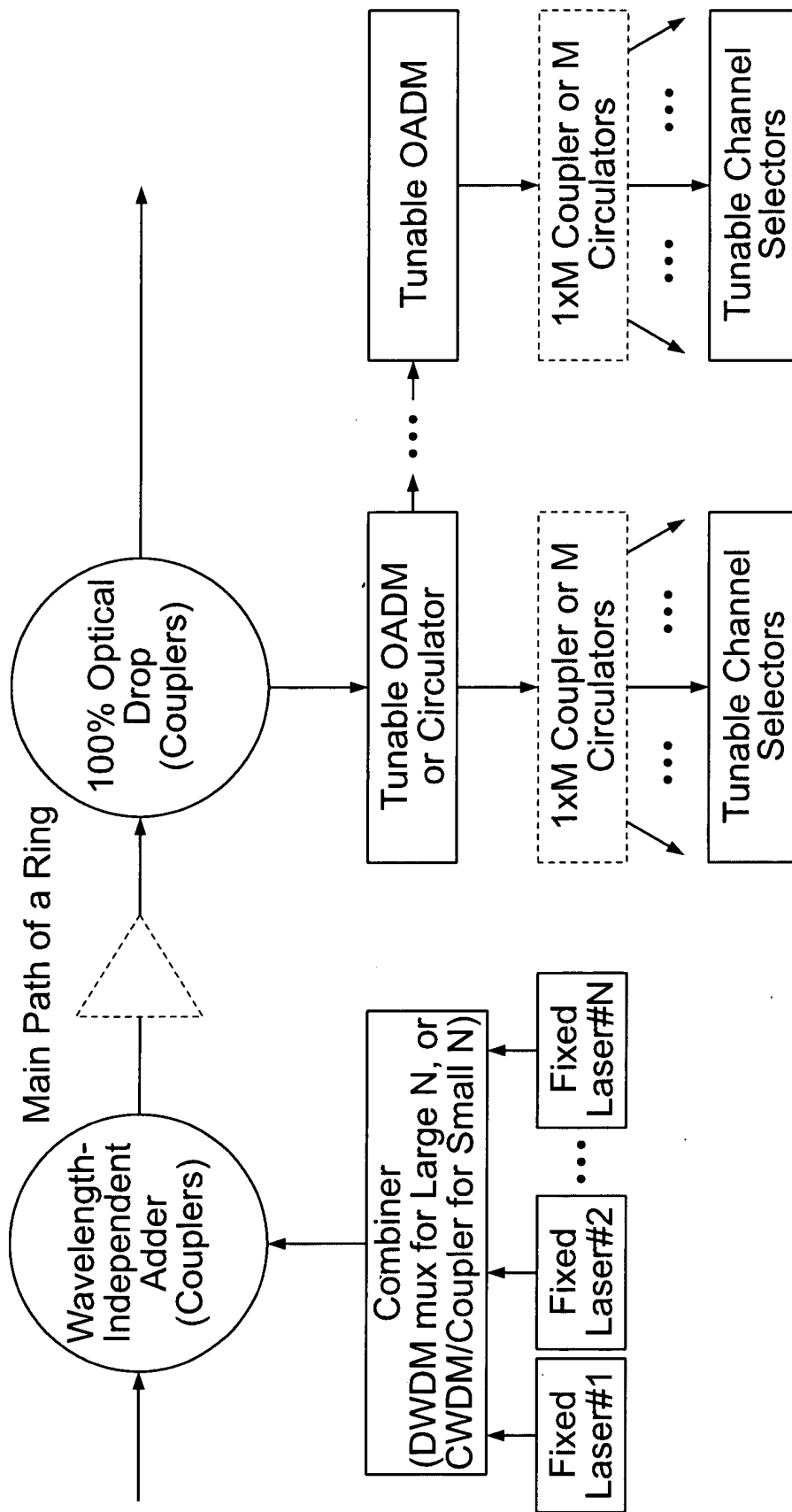
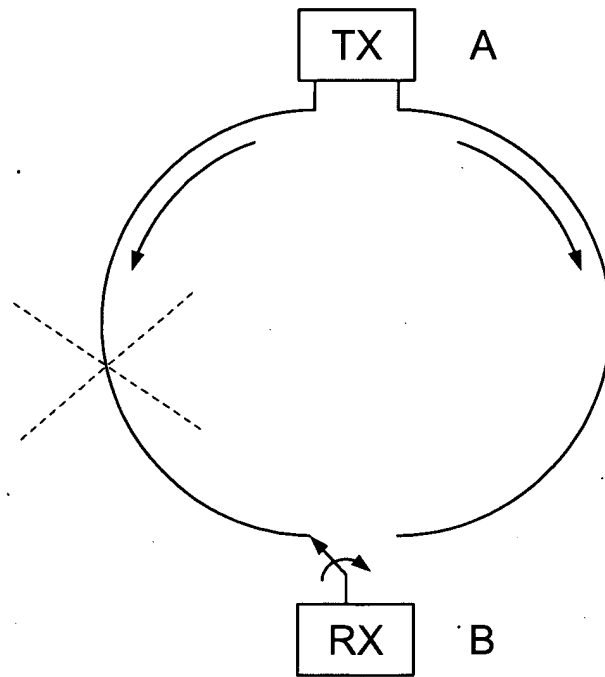


FIG. 5A



**FIG. 5B**



**FIG. 6**



## Metro System Using MetroVista

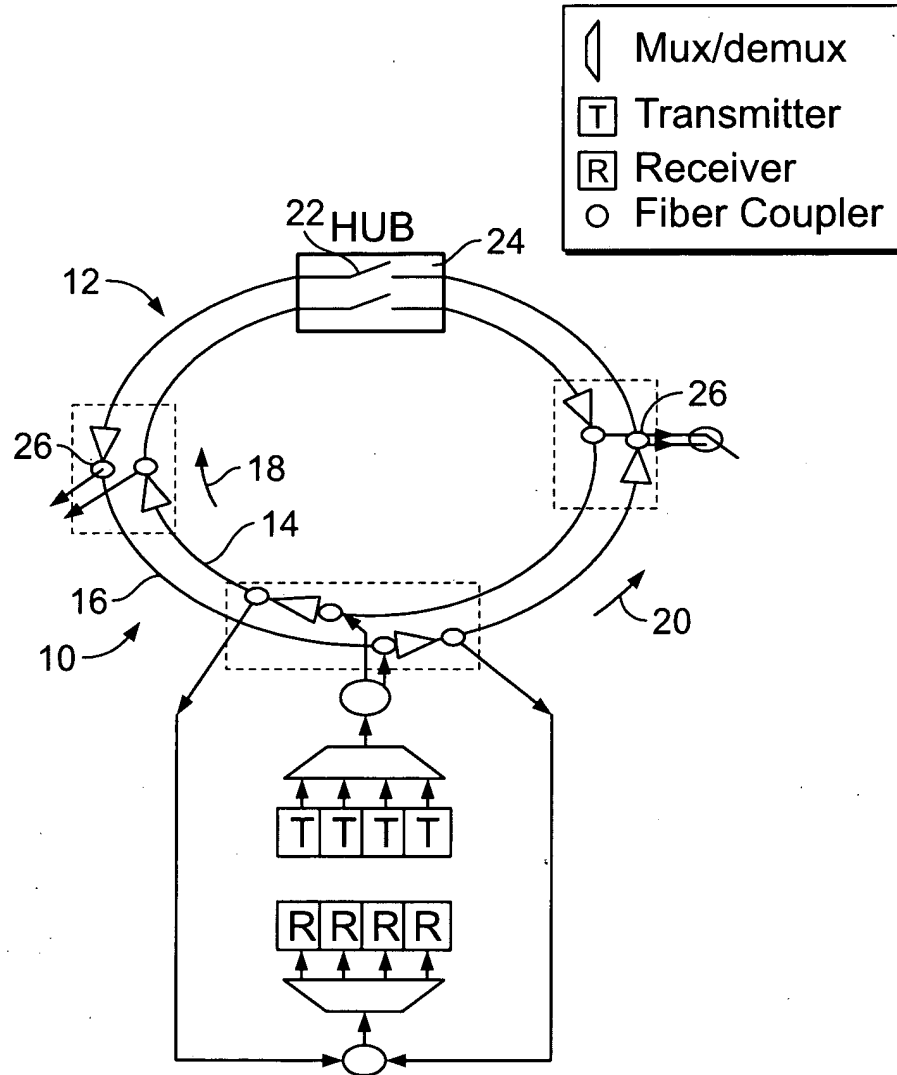


FIG. 7

## Protection Scheme for Two Fiber Breaks

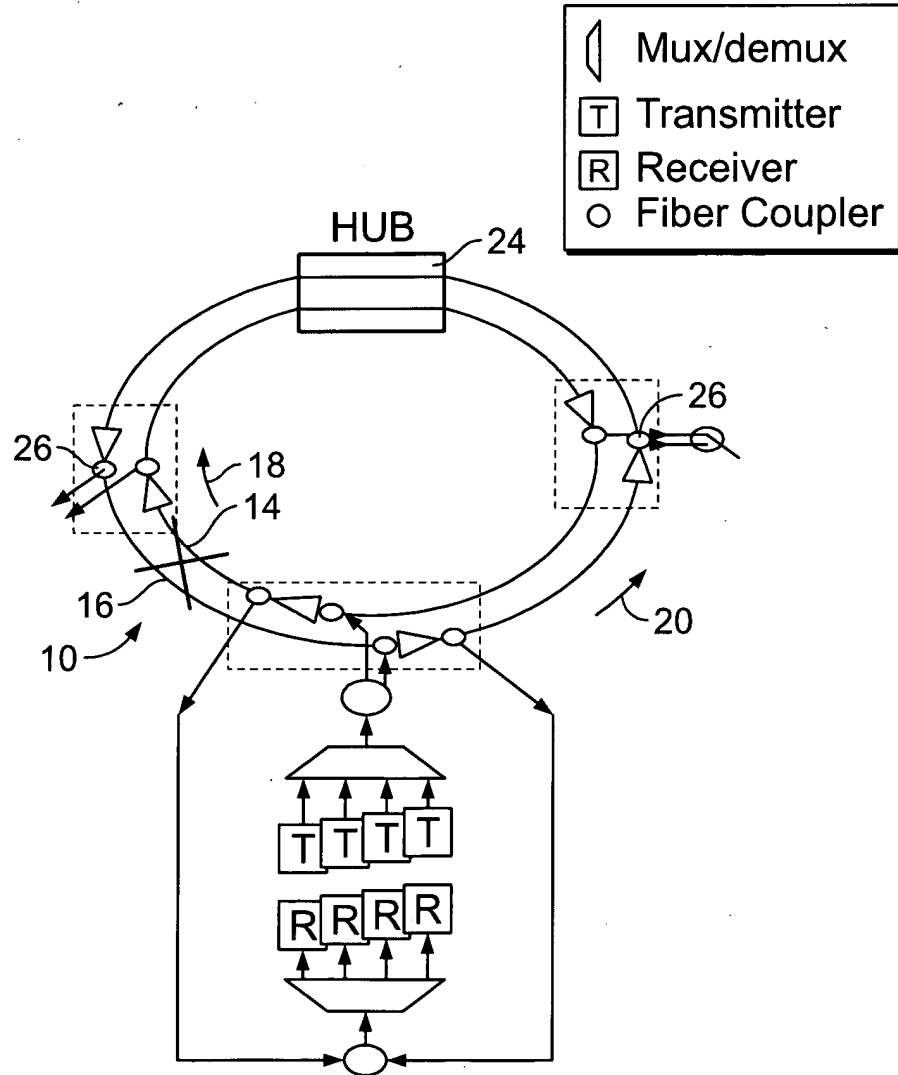


FIG. 8A

## Protection Scheme for Single Fiber Break

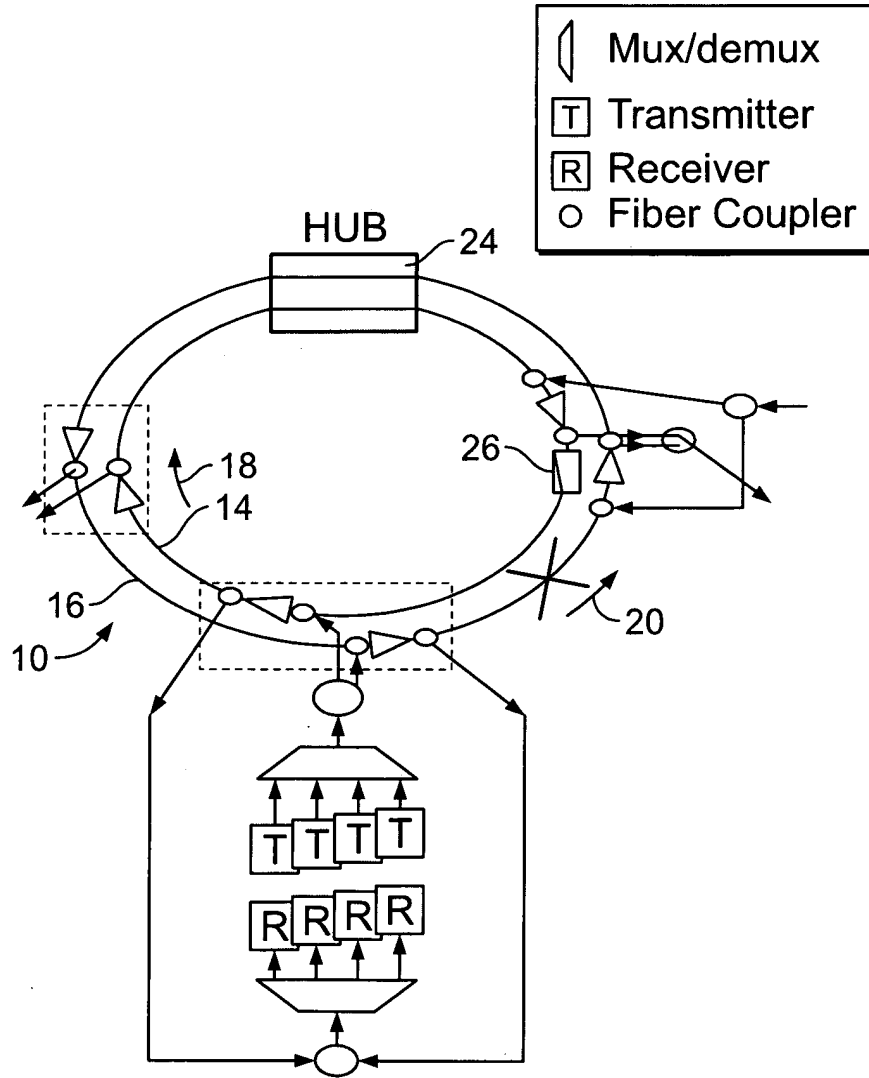


FIG. 8B

## Protection Scheme for Single Broken Amplifier

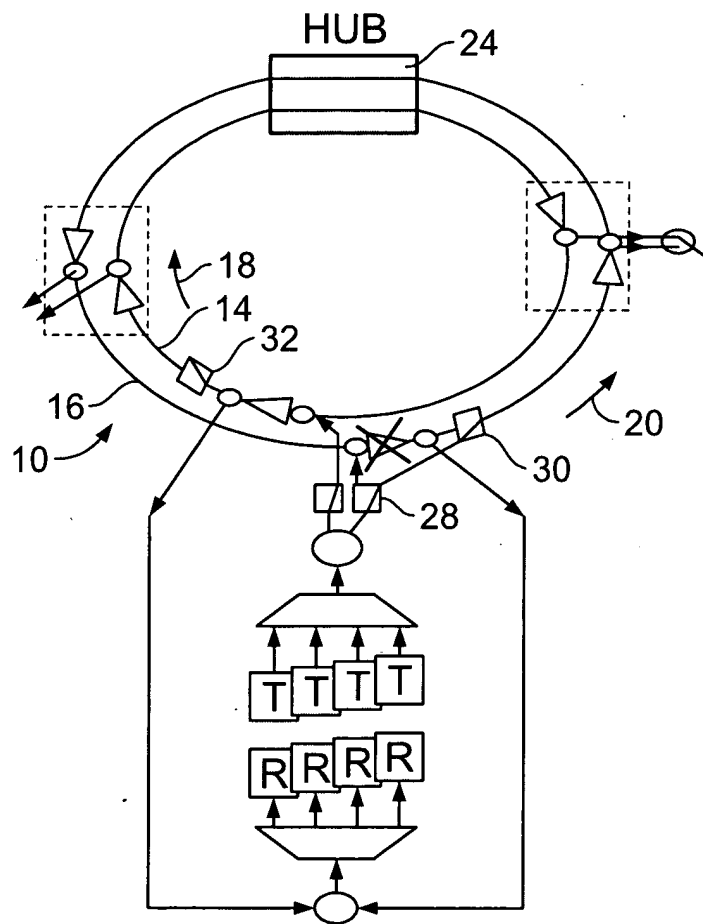
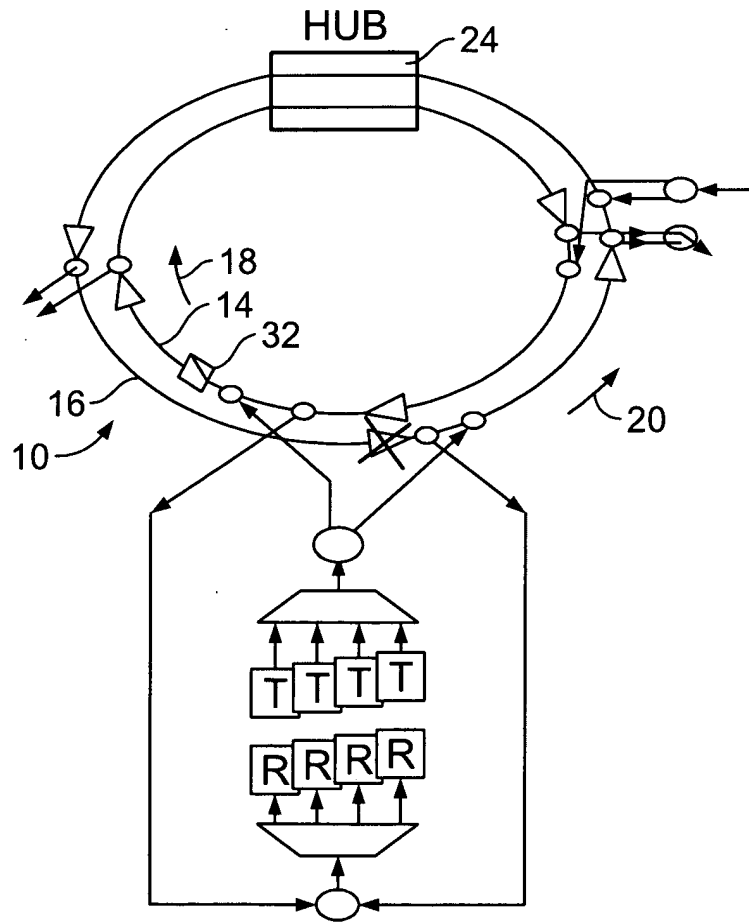


FIG. 8C

## Protection Scheme for Single Broken Amplifier



**FIG. 9**

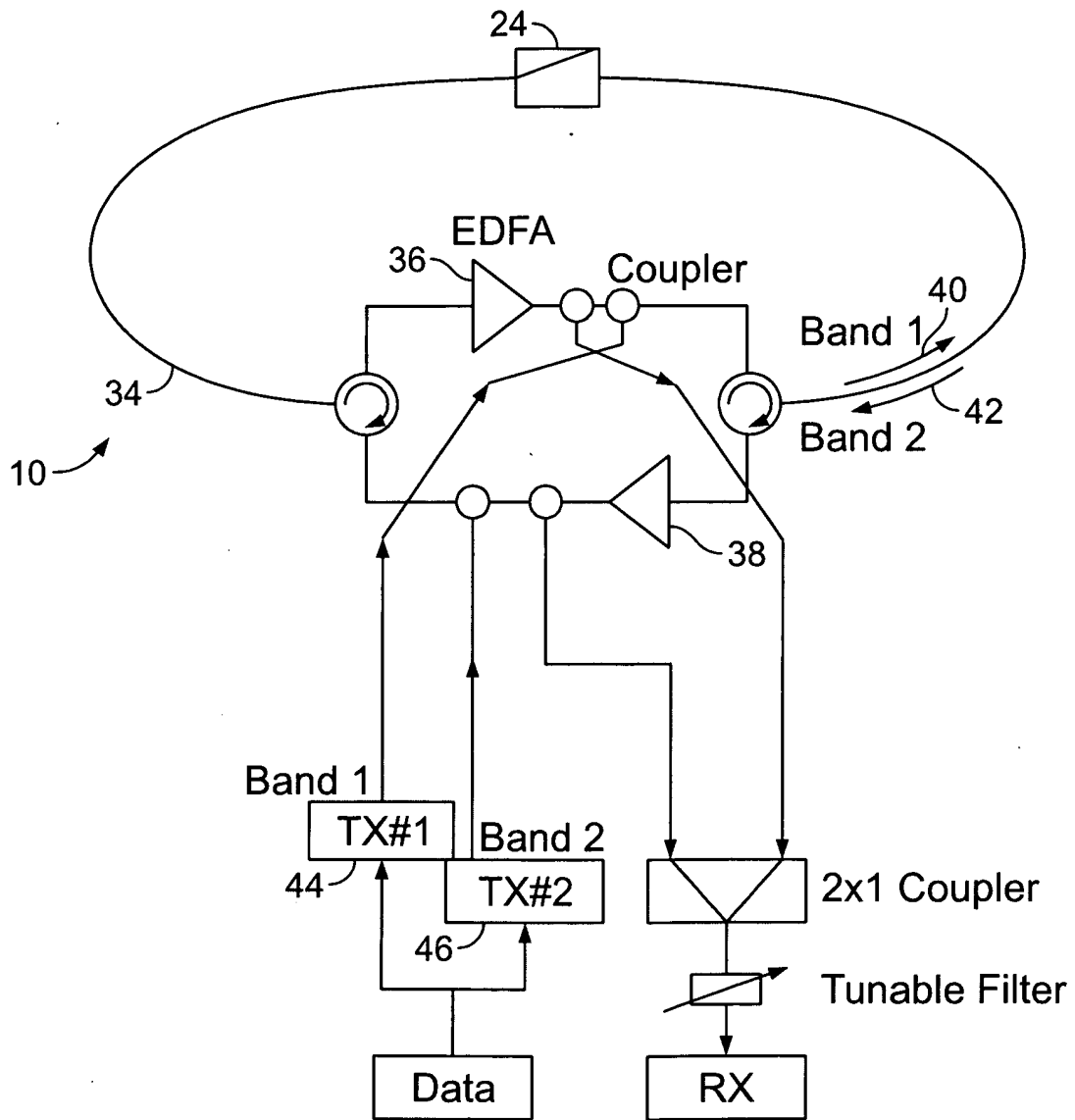
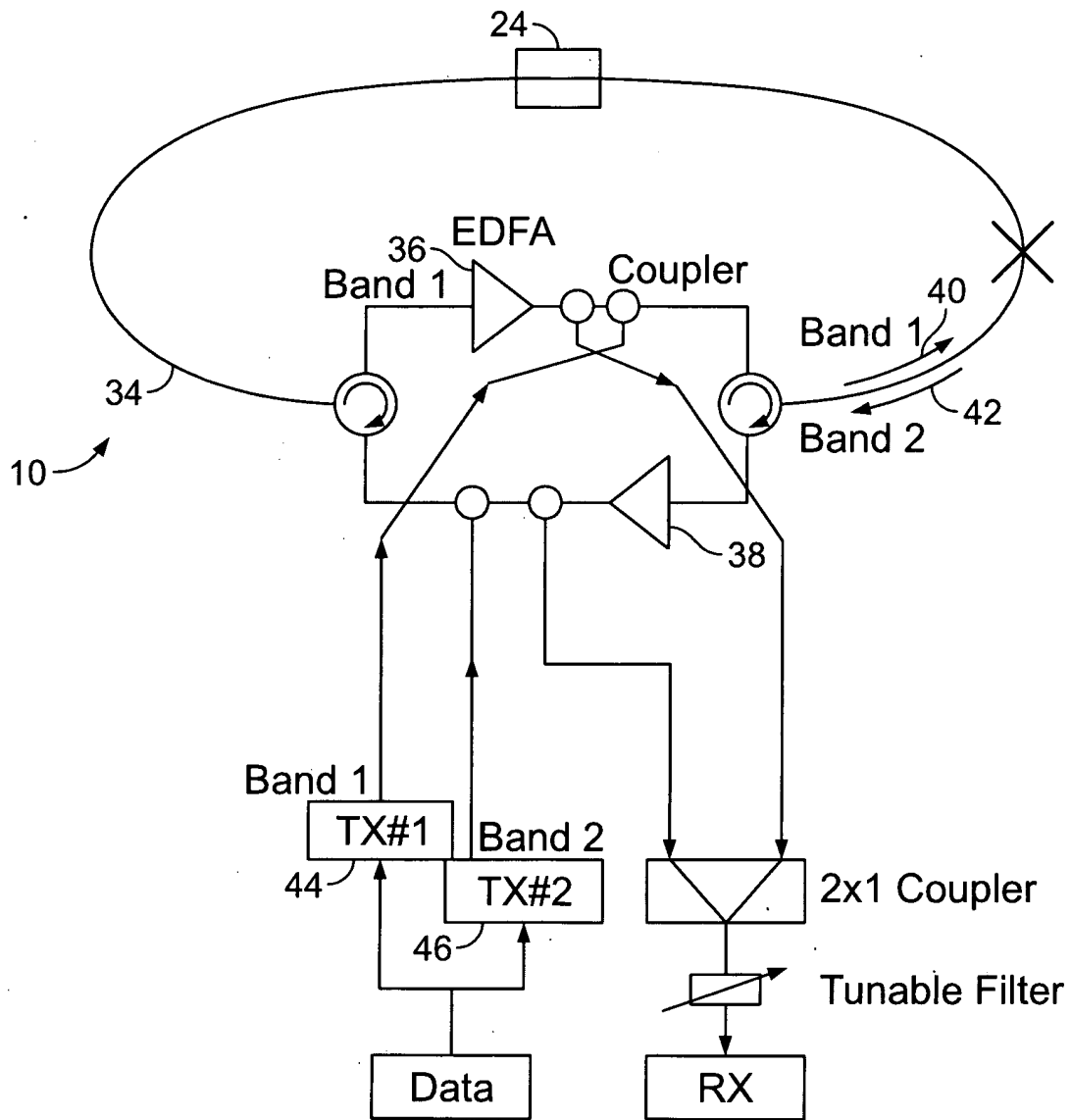
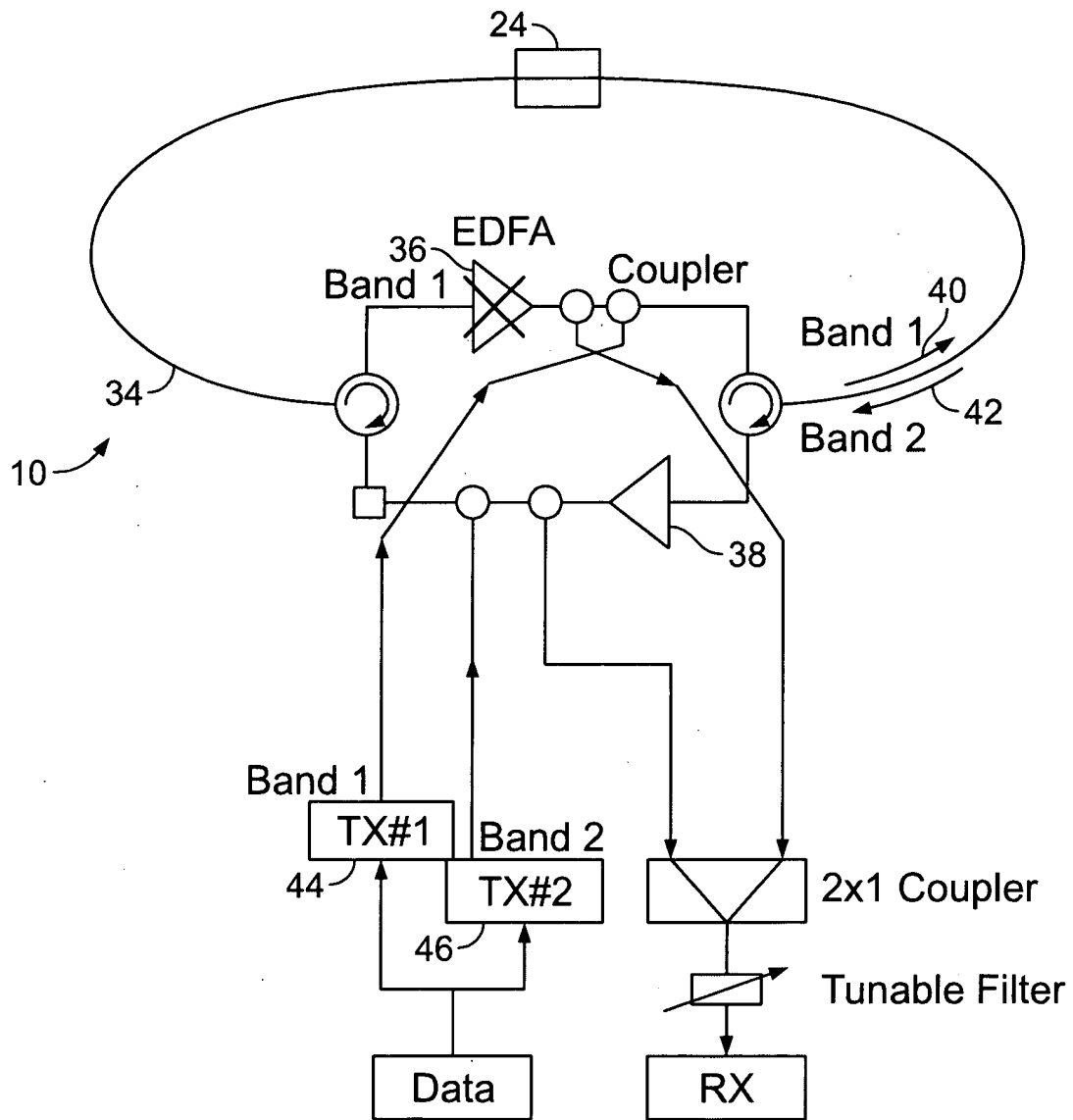


FIG. 10A

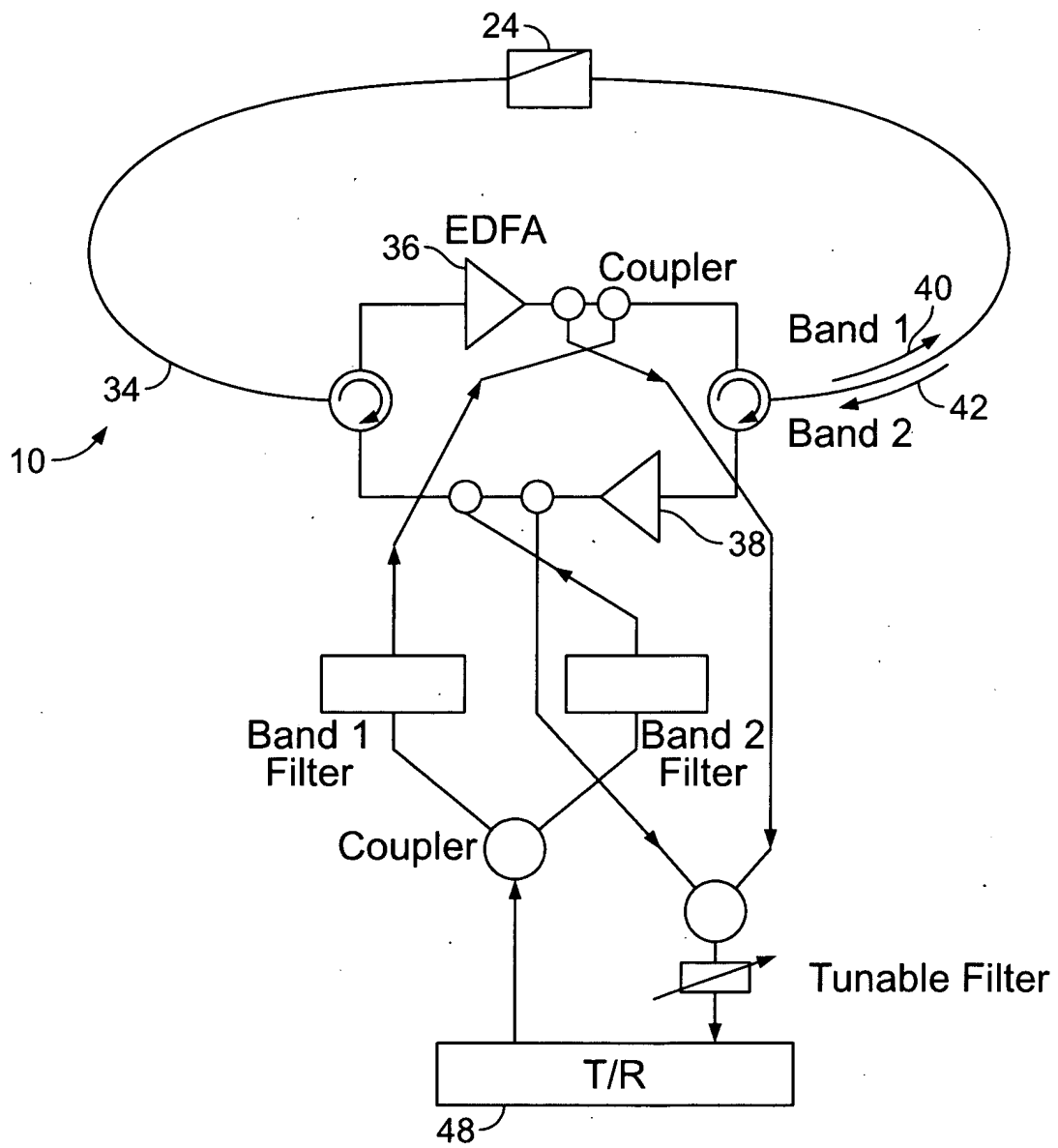


**FIG. 10B**



**FIG. 10C**



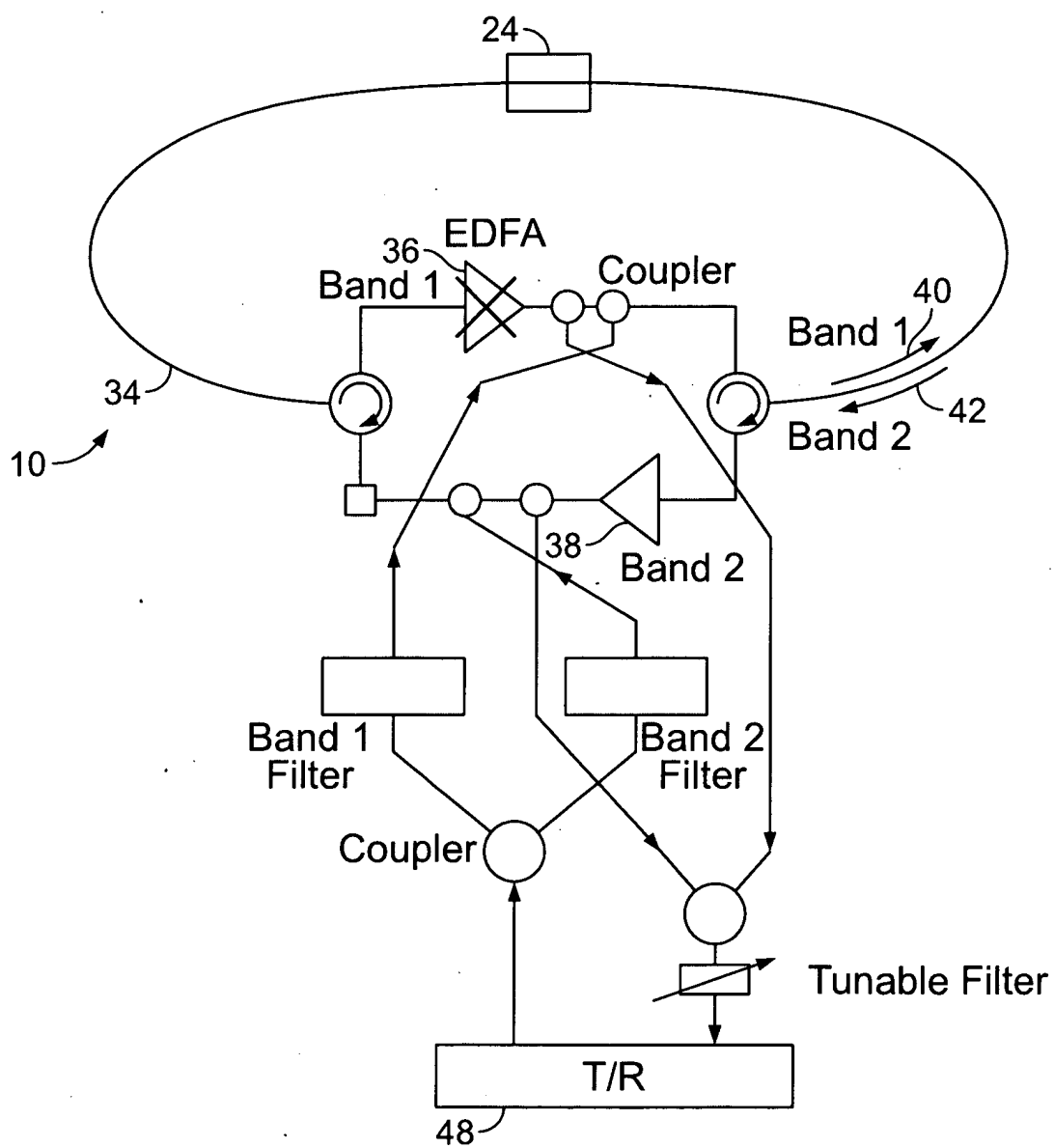


**FIG. 10D**

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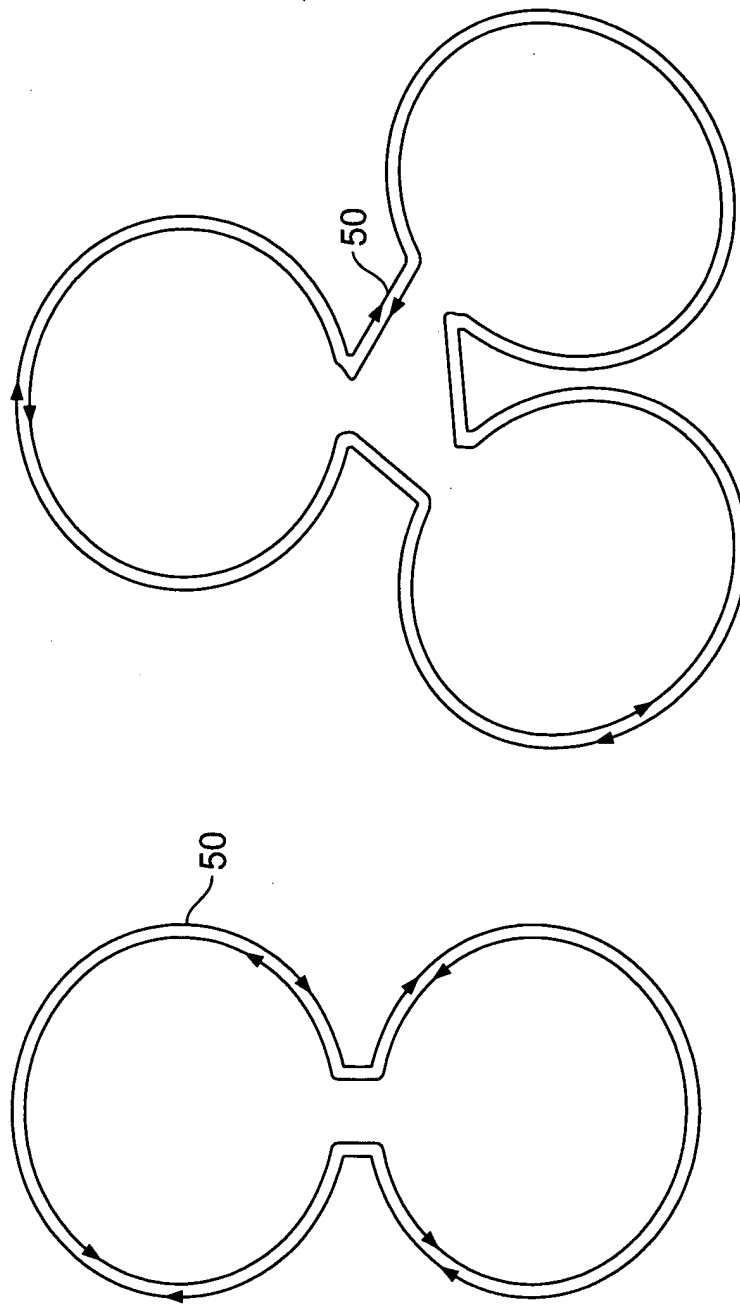


FIG. 11

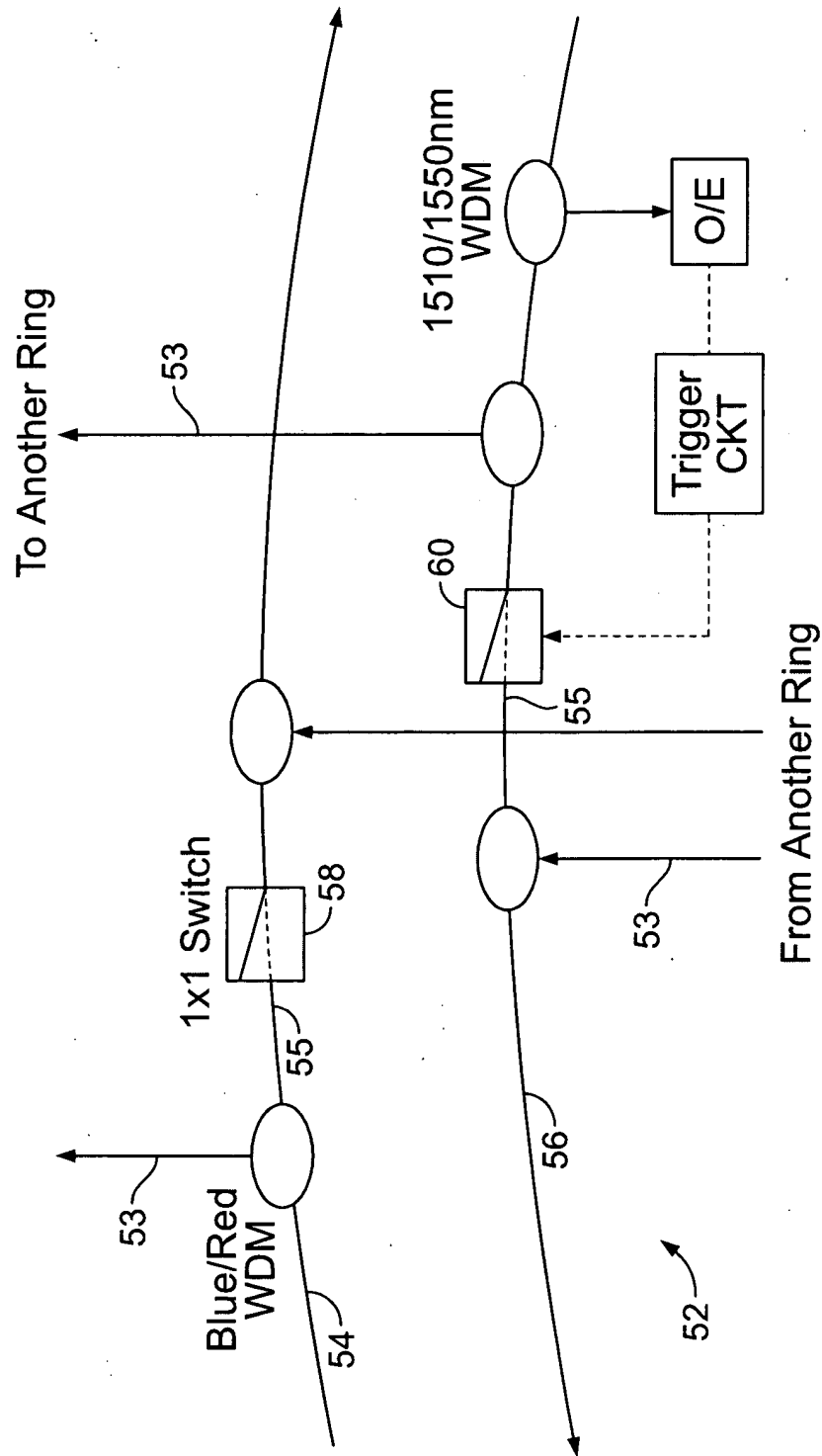


FIG. 12

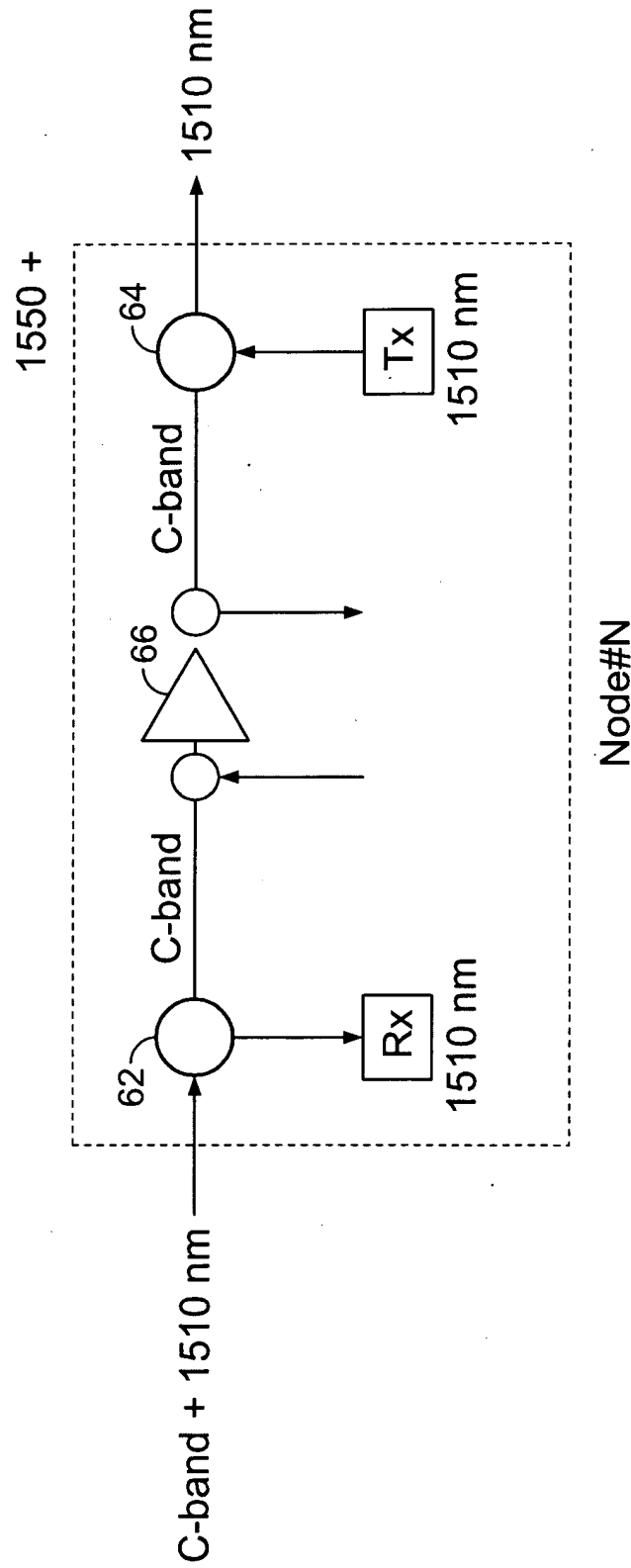


FIG. 13

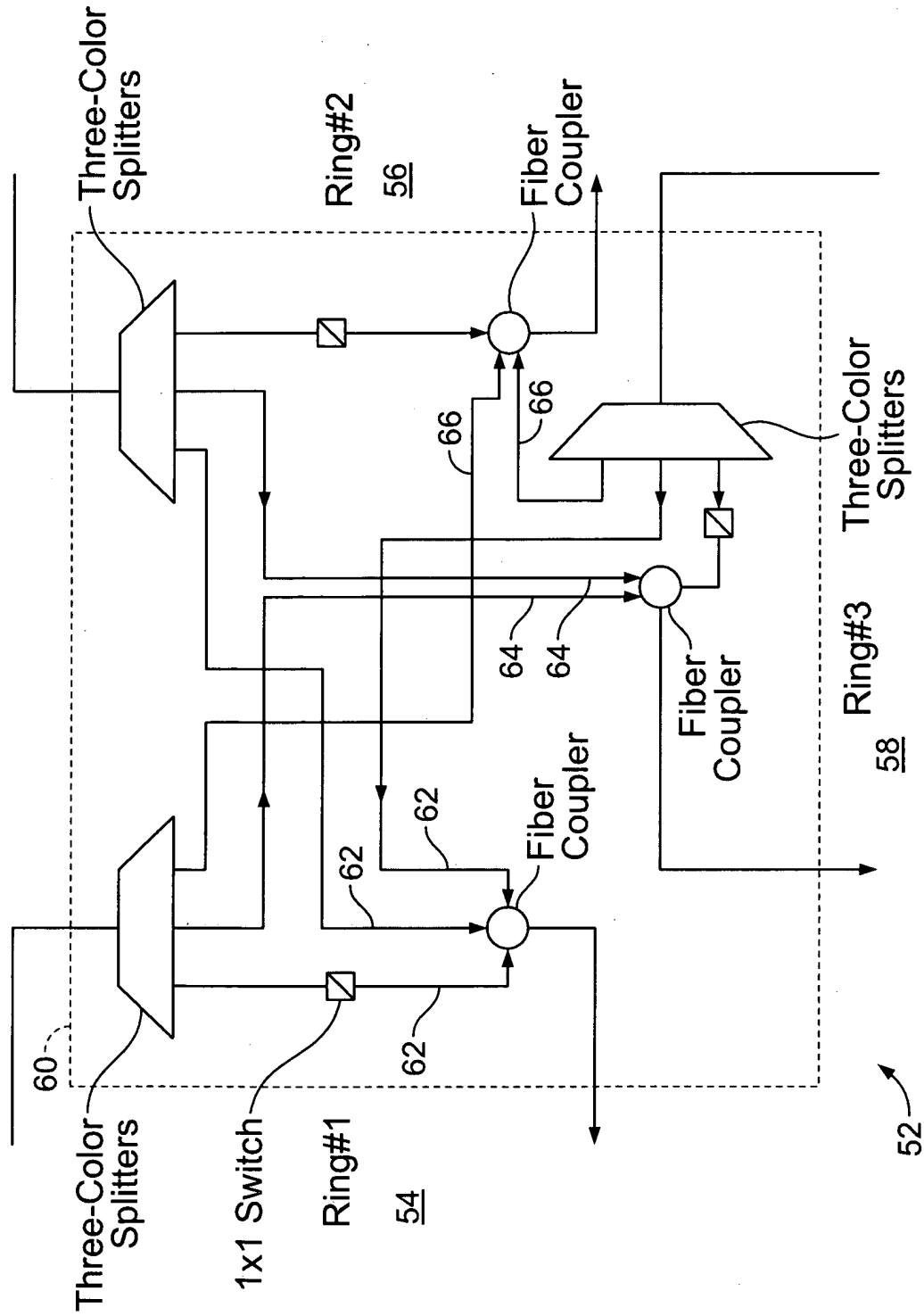


FIG. 14